



External Evaluation of the Cambodia Mine/UXO Victim Information System (CMVIS) Database, Data-entry and reporting systems

**Steven Mellor
September 2002**

**Evaluation conducted on behalf of Handicap International
Belgium and the Cambodian Red Cross**

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EVALUATION OF CAMBODIA MINE/UXO VICTIM INFORMATION SYSTEM (CMVIS)

This evaluation was conducted by an external consultant, Steven Mellor, during September 2002 under the supervision and at the request of Handicap International Belgium (HI).

The TOR for this evaluation were:

- The evaluation is to assist in strengthening the database function(s) of CMVIS.
- Identify areas that could be improved within the system of data entry through to the output of monthly and specialised reports. This involves looking at the overall information flow as well as the actual handling of data within the Access Database.
- Identify any additional areas that may improve efficiencies and/or cut costs within the project.

As part of this evaluation the consultant was also asked to provide technical assistance in upgrading the database where appropriate. In particular the consultant was asked to assist in the implementation of as many of the technical recommendations as was possible in the time available. Where this was done it is noted in this report.

The consultant was based at the Data Management Office, which is situated at the headquarters of the Cambodian Red Cross office in central Phnom Penh.

Executive Summary

The Cambodia Mine / UXO Victim Information System is unique in the world in terms of coverage and detail, containing in excess of 55,000 records detailing village level incidents where people have been killed and injured by mines and UXO in Cambodia going back as far as 1979.

Information is collected from all provinces by a team of Cambodian Red Cross field staff, both full time and volunteer, from a wide variety of sources using the Mine / UXO Casualty Report (annexe 1). The form collects detailed information about the victim, accident and type of device that caused the accident. The completed forms are then sent to the Data Management Office at the headquarters of the Cambodian Red Cross in Phnom Penh where they are entered into a database.

The main output of this database is the Monthly Mine / UXO Victim Report (annexe 3) a comprehensive report containing a number of tables and graphs summarising the main statistics by month for the whole country which is then sent to a mailing list of over 800 local and international recipients. This report is widely respected and data from it is often quoted in local and international media. In addition to the Monthly Mine / UXO Victim Report, statistics and maps are produced by the Data Management Office in response to ad hoc requests.

The database itself is simple and has been put together over the years by a number of people and it does a very good job of collecting and summarizing the data for the monthly report. Unfortunately in its present form it does not do much else; if the Data

Management Office receives a request for information not contained in the monthly report or if the staff want to analyse the data in any way the database has to be interrogated manually (requiring a high level of competency in ACCESS) which is time consuming and inefficient. Also the database could be used much more pro-actively (as recommended in the July 2000 UNICEF sponsored evaluation) if it was easier to extract and analyse the data.

This evaluation finds that CRC does a good job of processing and analysing the information collected by the field staff given the tools available to them; but that they could do their jobs more easily and efficiently if attention was given to improving the documentation, searching and reporting facilities of the database.

Therefore this evaluation makes the following recommendations that are broken down into more detail in later sections of this report:

1. Further improve the quality of the data by increased use of error checking during data entry and the production of automated error reports.
2. Develop a module to enable users to easily search for records or groups of records within the database
3. Automate the production of statistics so that statistics can be produced by an unskilled user summarizing all data collected by the Mine / UXO Casualty Report down to at least district level.
4. Be more pro-active in alerting sector specific groups to their findings by developing detailed reports aimed at specific groups of users and the CRC field staff.
5. Improve the documentation of the system by developing
 - Data Collectors Handbook explaining all aspects of the data collection process with a definition of terms for all of the questions contained in the Mine / UXO casualty Report
 - User and technical guides for the CMVIS software to help the users and any future developers of the system

1 Description of CMVIS project

The Cambodia Mine / UXO Victim Information System (CMVIS) is an organisation of the Cambodian Red Cross (CRC) and Handicap International (HI) established to provide the continuous and systematic collection, analysis, interpretation and dissemination of information about mine and UXO casualties in Cambodia. Started by MAG in 1994 the project has gradually expanded to cover all provinces in Cambodia

Information is collected from all provinces by a team of Cambodian Red Cross field staff, both full time and volunteers, from a wide variety of sources using the Mine / UXO Casualty Report (annexe 1). The form collects detailed information about the victim, accident and type of device that caused the accident. The completed forms are then sent to the Data Management Office at the headquarters of the Cambodian Red Cross in Phnom Penh where they are entered into a database.

The Cambodia Mine / UXO Victim database now contains in excess of 55,000 records detailing village level incidents where people have been killed and injured by mines and UXO in Cambodia going back as far as 1979.

The main output of this database is the Monthly Mine / UXO Victim Report (annexe 3) a comprehensive report containing a number of tables and graphs summarising the main statistics by month for the whole country which is then sent to a mailing list of over 800 local and international recipients. This report is widely respected and data from it is often quoted in local and international media. In addition to the Monthly Mine / UXO Victim Report, statistics and maps are produced by the Data Management Office in response to ad hoc requests submitted by users on the database Information Request Form (annexe 2)

2 CMVIS Database

The CMVIS database is situated in the CMVIS Data Management Office at the headquarters of the Cambodian Red Cross in central Phnom Penh.

2.1 Hardware and software

The computing hardware comprises of a total of 8 networked PC's, 4 shared printers and a laptop for field use.

This Victim Database was originally developed in MS Access 2.0 and has been updated with subsequent versions of ACCESS and is now using Microsoft Access 2000.

The database is split into a front end (forms, reports and queries) and back end (victim data). A copy of the front end is on each computer and all are linked to the back end database that sits on the Database Supervisor's computer enabling all staff to have access to the database from their own computer. Backups in the form of either a CD or zip disk copy are made every month and are stored in both the CRC and HI. In addition to ACCESS the CMVIS also uses ARCVIEW (GIS software) and EXCEL to produce reports.

Both the hardware setup and the software used for the CMVIS are appropriate. ACCESS is the de facto standard for small to medium sized database development in Cambodia (and most other developing countries), it is easy to use and most importantly there is a growing pool of expertise within Cambodia making it easy to maintain. ARCView mapping software is also widely used in Cambodia particularly by de-mining agencies such as CMAC.

2.2 Database structure

The database is very simple consisting of 2 identical tables containing all the data from Mine / UXO Casualty Report, one table contains all pre 1997 data (approx 47,000 records) and one contains data from 1997 to present (8,000 records). Most of the data is coded and there are a series of lookup tables containing the descriptions for each code. The lookup tables for province, district, commune and village are taken from the Government Geography Department Gazetteer. Indexes are used on some of the fields in the main table but not on most of the lookup tables which means that some queries, particularly on pre 1997 data take longer than they would with better use of indexes. At the time of the evaluation the database was in an uncompiled state which can also effect the efficiency of the database.

The database consists of a main menu that gives the user access to 5 forms

- Data entry forms in both English and Khmer for pre 1997 and current data (a total of 4 data entry forms)
- A form for setting dates for and for running a set of queries that outputs data to EXCEL which is used to produce the Monthly Report which is sent to approximately 800 agencies in Cambodia and overseas.

Data from the Mine / UXO Casualty Report can be entered and viewed in both English and Khmer using the data entry forms but there are no facilities to effectively search for data once it is entered. In order to find records in the database (e.g. all people killed in a particular province) it is necessary to write a query which requires a high level of competency in ACCESS and even then the data is not presented in a format that is useful for a user. The data entry forms include a certain amount of error checking to try to reduce data entry errors.

There are no reports that the user can access from the main menu other than the Monthly Report

The structure of the database is sound. The design of the main data tables, the use of coding systems and lookup tables are all good. The fields are well named and documented which make is easy for an outsider to understand the database. The data entry forms are well designed to look like the data collection forms making it very easy for the database operators to enter and view data. The inbuilt error checking is good but could be improved to further reduce data entry errors.

Recommendations

- *Use more indexes in the tables especially in fields that are frequently used in queries. Lookup tables should also be indexed. (completed during evaluation)*
- *Ensure that the database is compiled and compacted after any changes to the database.*
- *Develop a comprehensive search screen so that the database can be searched for individual or groups of records. (completed during evaluation – see annexe 4)*
- *Improve inbuilt error checking during data entry to further reduce data entry errors (completed during evaluation)*
- *Incorporate the gazetteer search module into the data entry screens to allow the user to search for place names and codes during data entry (completed during evaluation)*
- *Future reports produced by the CMVIS should be produced automatically using ACCESS where possible and be accessible to the user from the Main Menu of the CMVIS.*

2.3 Quality of data

In assessing the data quality it is necessary to look at the pre and post 1997 data separately as data gathered prior to 1997 was collected using different (and more basic) forms than the data collected today.

2.3.1 Pre 1997 data

The pre 1997 data is used to generate only the most basic statistics based on age, occupation, gender, date of accident, place of accident, type of device and killed / injured, therefore in accessing data quality the evaluation limited the investigation to these items.

At present there are some 47,000 records with about 4,000 more still to be entered. Data was first collected in 1979 yet there are some records in the database from as far back as 1970 and approximately 250 records with no date and a small number with obviously incorrect dates. 1000 of the older records have no place of accident code, 130 records have no age and a small number have no reported gender. There are over 4000 records having no device type code or are coded unknown yet most of these have a physical description of the device type. As the older data was not coded at the time of entry the device type was written in text and it seems like only the most obvious descriptions like “Mine” or “UXO” were converted into codes resulting in a very high percentage of unknowns in the statistics.

With such a large amount of data collected from various sources there is a strong chance of some duplication in the data; either it could be reported by separate sources

or actually entered twice. It is easier to spot records entered twice from records reported twice as in the former case it is likely that data in most fields will match. Records reported twice are harder to spot as the names may be spelled differently, dates not quite the same etc. There are about 200 records that are obviously duplicates and about 1000 records that could be duplicates.

The quality of this data appears to be reasonable especially considering that only the most broad statistics are published for pre 1997 therefore it is not recommended to spend too much time trying to clean the data any further. Even if all the possible duplicate records are duplicate (unlikely) it would only amount to 1200 records out of 47,000. That said, there are some measures that could be implemented quickly and would improve the quality of the data.

Recommendations

- *Check the original forms for records without a date*
- *Archive the small number of records with dates prior to 1979*
- *Delete the obvious duplicate records*
- *Convert the device type descriptions into codes to reduce the number of "unknowns" in the statistics **(completed during evaluation)***

2.3.2 Current data

The current data was mostly entered through the ACCESS data entry screens that have some built in error checking therefore there are few cases where important data such as date of accident is either missing or incorrect. However there are some inconsistencies in the data that have not been picked up, such as people reported killed immediately yet listing the place of death as a hospital. There are also some duplicate records.

The quality of data is good and with improved error checking during data entry, development of the Data Collectors Handbook and improved feedback to field workers (recommended elsewhere in this report) future data should be even more accurate. As the numbers of errors are few they should all be investigated and corrected.

Recommendations

- *Reports should be developed to help in the quality control of the data, such as error reports, lists of possible duplicate records etc. **(completed during evaluation)***
- *All identified errors and inconsistencies in the data should be investigated and corrected*

2.4 Reporting

A comprehensive report is produced each month by exporting a set of queries to EXCEL where they are formatted, printed and distributed to a local and international mailing list of over 800. Recently in order to reduce costs the report has been emailed where possible. The Monthly Report (see annexe 3) is a large report containing a number of tables and graphs summarising the main statistics by month for the whole country, it is widely read and often quoted in local and international media.

The Monthly Report is a comprehensive summary but too big to be produced monthly and serious consideration should be given to either reducing the size of the report or producing it less often with possibly a much smaller monthly summary.

No other reports are produced automatically by the database but are produced on an ad hoc basis responding to individual requests. Users can request information using the Database Information Request Form (annexe 2) that was designed to let the users know what information is available from the CMVIS. After receiving such a request the database supervisor then has to write a specific query on the database to produce the statistics. In some cases it can take a day or more to write and format these queries to generate the desired statistics. Data from these ad hoc requests is sometimes displayed graphically using ARCVIEW.

The idea of a Database Information Request Form is good but at present the form does not match what the staff of the Data Management Office are able to produce easily. The staff are very skilled at producing queries to service these requests but there is a lot of time wasted rewriting the same queries. The form should more accurately reflect what the staff can produce and the database should be enhanced so that the statistics are produced more or less automatically and without the need for specialised knowledge of ACCESS. There seems little point in trying to automate the production of maps as it would be time consuming and expensive. Once the basic statistics are produced by the CMVIS the CRC staff are very skilled in using ARCVIEW to graphically display the data.

All outputs from the database are summaries of historical data, there are no reports generated on individuals and there have been very few requests for such data. The database contains a lot of very detailed information on individuals, their injuries and disabilities that would be useful to agencies working in the rehabilitation sector and also a lot of specific details about accidents that would be useful to the de-mining agencies.

There is no regular feedback to the field staff other than the monthly report.

The reason that there are few requests for this data is probably because few people know it exists. The Data Management Office needs to be more pro-active in its use of the database to alert specific groups to some of the more detailed and specific data it collects or else there is little point in collecting such specialised data. The lack of detailed feedback to the field staff is a concern and should be addressed.

Recommendations

- *Review the content, format and timing of the present Monthly Report to possibly cut down the size of the report or reduce its frequency*
- *Automate the production of statistics so that statistics can be produced by an unskilled user summarizing all data collected by the Mine / UXO Casualty Report down to at least district level. **(completed during evaluation – see annexe 5)***
- *Change the Database Information Form to reflect more closely the capacity of the Data Management Office to produce such information*
- *The Data Management Office should become more pro-active in providing tailored information to specific groups such as providing lists of people injured in their area to rehabilitation groups and feedback to the CRC field staff. **(begun during evaluation)***

2.5 Staffing

The Data Management Office is staffed by 9 Cambodian and 1 expatriate staff:

- Project Manager
- Database Supervisor
- Database Operator (2)
- Field Supervisor (2)
- Cleaner / administration
- Driver (2)
- Project Advisor (expatriate)

The Database Supervisor, Database Operators and Field Supervisors do some data entry and the Database Supervisor and Project Advisor generate statistics and produce reports. All of these staff have received training in ACCESS and GIS and statistics.

The staffing and skill levels are adequate for the workload. The database supervisor is a key person as he is the only person who has the skills (apart from the project advisor) to write queries and generate statistics which he spends a lot of time doing. At present the Data Management Office is overly dependant on this person but with the development of improved reporting and statistics from the CMVIS this issue should be addressed. In addition the Database supervisor and other staff will have more time to analyse the data.

ANNEX 1

CMVIS Mine / UXO Casualty Report

GPS ☐**MINE / UXO CASUALTY REPORT**

Serial No.

(Fill in one report for each Mine/UXO victim)

1 Interviewer:**4 Agency:****2 Date of Interview?**

DD/MM/YY

5 Province/Office**3 Place of Interview:**

- ☐ Prov Hospital ☐ Private Clinic ☐ Other (specify) _____
- ☐ District Hospital ☐ Village/Town _____
- ☐ Commune Health-centre ☐ Army Camp/Hospital

6 Informant type:

- ☐ Victim ☐ Government ☐ Community Member
- ☐ Family/Relative ☐ Military ☐ Hospital Staff

7 Name:**8 Address:****2 WHERE did the accident take place?****5 PHUMCODE****GPS Information**

VILLAGE NAME:

1

2 KHUM:

3 SROK:

4 KHET:

6 Other Local Names for Accident site:GPS GR: Meter: Compass Bearing: Describe **3 Area Type of Accident**

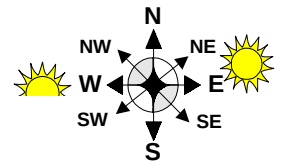
- 1 ☐ in Village 3 ☐ Rice Field 5 ☐ in Forest 7 ☐ on Mountain/Hill 9 ☐ Other (specify) _____
- 2 ☐ on Path / Road 4 ☐ Grazing Field 6 ☐ near River 8 ☐ near Military Position (Camp, Base, Checkpoint, etc.)

4 Distance of Accident Site from Center of the Village?

- 1 ☐ in Village 2 ☐ Near: <500m 3 ☐ Not Far: 500m-2kms 4 ☐ Far: 2-5km 5 ☐ Very Far: >5km

6 What direction from village ?

(make a mark)

**5 WHEN was the Date of Accident?**

Day/Month/Year

6 Victim Information**1 Full Name:****2 Other Name:****4 Age:****7 Sex:** a ☐ Male b ☐ Female**5 Occupation:** a ☐ Civilian b ☐ Military

6 Family Status: a ☐ Single d If Children, how many? _____

b ☐ Widowed/Divorced

c ☐ Married

3 Current Address

Home Address Phumcode

PHUM:

KHUM:

SROK:

KHET:

7 1 What type of DEVICE caused the accident?

- a ☐ **Mine** Anti-tank Anti-personnel
- b ☐ **UXO** Cluster Munitions Other UXO
- c ☐ **Fuse** Improvised Explosive Device
- d ☐ **Unknown**
- e ☐ **Other (specify)** _____

2 Did the victim know there was a MINE/UXO at the site of the accident?☐ Yes ☐ No ☐ Unknown**3 If they knew there was a mine/UXO, WHY did they go to the area?**

- a ☐ Economic necessity c ☐ Other (specify) _____
- b ☐ No other access

4 How often did the victim go to the area?a ☐ First time b ☐ a Few times c ☐ Often d ☐ Unknown**5 Has there ever been any Mine/UXO clearance at the accident site?**☐ Yes ☐ No ☐ Unknown☐ CMAC ☐ NGO ☐ Army ☐ Villagers **Who cleared the area?****6 Was the accident site marked as dangerous at the time of the incident?**☐ Unofficial ☐ Official **What kind of marking?** ☐ Yes ☐ No ☐ Unknown**7 Did victim attend Mine Awareness prior to the accident?**☐ Yes ☐ No ☐ Unknown**8 Was the victim attending school?**☐ Yes ☐ No ☐ Unknown

8 Injury Details

1 From the mine/UXO explosion, was the victim ☐ Killed ☐ Injured

2 If the victim died, how long after the accident did they die? ☐ Immediately hours days weeks months

3 WHERE did the casualty die? ☐ At site of accident ☐ In health facility/hospital ☐ Unknown
☐ On the way to health facility/hospital ☐ After leaving health facility/hospital ☐ Other (specify) _____

4 Amputation? **Complete this section for all victims who were killed or injured**

	Arm	Fore Arm	Hand	Finger	Above Knee	Below Knee	Foot	Toe
Right	☐	☐	☐	☐	☐	☐	☐	☐
Left	☐	☐	☐	☐	☐	☐	☐	☐

5 Wounds? ☐ Face ☐ Upper Limb ☐ Upper Body ☐ Lower Limb ☐ Lower Body ☐ Entire Body

6 Burns? ☐ Face ☐ Upper Limb ☐ Upper Body ☐ Lower Limb ☐ Lower Body ☐ Entire Body

7 Blind? ☐ 1 eye ☐ 2 eyes

8 Deaf? ☐ Very Slight ☐ Slight ☐ Serious ☐ Very Serious

9 Paralysis? ☐ Face ☐ Upper Limb ☐ Upper Body ☐ Lower Limb ☐ Lower Body ☐ Entire Body

9 1 What MEDICAL care did the victim receive FIRST?

☐ None ☐ District Hospital ☐ Army camp/hospital ☐ Red Cross Volunteer ☐ Unknown
☐ Treated Self ☐ Provincial Hospital ☐ Commune health centre ☐ Private Clinic ☐ Other (specify) _____

2 How long before the victim received this first medical care? ☐ <30min ☐ <60min ☐ Unknown
☐ < 2 hrs ☐ > 2 hrs ☐ Not Applicable

3 How long before the victim reached hospital? ☐ <30min ☐ <60min
☐ < 2 hrs ☐ > 2 hrs
☐ Not applicable
☐ Unknown

4 Hospital name: _____

10 1 -Does the victim have a prosthesis? ☐ YES ☐ NO

2 -Does the victim have a wheelchair? ☐ YES ☐ NO

3 -Does the victim have crutches? ☐ YES ☐ NO

4 -Has the victim received any rehabilitation/physical therapy? ☐ YES ☐ NO

5 -Has the victim been visited by a community development worker? ☐ YES ☐ NO

6 What did the worker do?

☐ Refer victim to a disability rehabilitation centre

☐ Refer victim to a vocational training centre

☐ Provide monetary or other support (rice, etc)

☐ Other (specify) _____

11 1 What was the victim doing when the accident occurred?

a ☐ Cutting/Collecting Wood f ☐ Travelling

b ☐ Collecting Food

c ☐ Fishing

d ☐ Herding

e ☐ Farming

g ☐ Military Activity

h ☐ Tampering with Mine/UXO

i ☐ Playing (Not with mine/UXO)

j ☐ Nothing-exploded beside victim

k ☐ Clearing new land for farming/settlement

l ☐ Other (specify) _____

2 Who activated the mine/UXO? ☐ The Casualty ☐ Someone else ☐ Other (specify) _____

12 1 Were others injured/killed? ☐ YES ☐ NO

How many? Killed? _____ Injured? _____

2 What are the names of the other casualties?

1. _____	3. _____	5. _____	7. _____
2. _____	4. _____	6. _____	8. _____

13 Were any ANIMALS injured/killed? ☐ YES ☐ NO

How many?

Cow : _____ Horse: _____ Pig: _____ Buffalo : _____ Other: _____

Return this form to: CAMBODIAN RED CROSS, 17 RED CROSS STREET, PHNOM PENH

OFFICE USE ONLY	Receipt date:	Form checked by:	Computer entry by:	Entry checked by:

ANNEX 2

Database Information Request Form



DATABASE INFORMATION REQUEST

Request

Please complete the following form to request information from the CMVIS Database. Complete one form for each single request. Please try to be as precise as possible about the result you are looking for, to help us present the information in the best possible way. To complete the form tick the boxes for the information you require and complete the required personal information. If you do not want certain information, leave the box blank. If the form does not apply to your request please complete the personal information section, sign the form and attach your request on a separate sheet of paper. Keep a copy of this request and return the original to one of our Data Gatherers in the field, a CRC Provincial Office, or the CMVIS Office in Phnom Penh. If you require further information, do not hesitate to contact us.

Personal information

1 Name of requesting agency and contact person

Name:

Agency:

2 Return address and contact phone number

Post:

Phone:

Email:

Fax:

3 Please indicate the delivery format

☐

Paper

☐

Diskette

5 Indicate the latest completion date your request

Day - Month - Year

4 Please indicate how you would like the information delivered to you

☐

Post

☐

By hand*

☐

Email

☐

Self pick-up

* Please note: delivery by hand is limited to provincial capitals and may involve some delays

Request information

6 Indicate the type of information you want (please refer to the attached casualty report form for more information)

☐

Date of interview

☐

Place of interview

☐

Informant type

☐

Gender of casualty

☐

Male

☐

Type of injury

☐

Female

☐

Distance & direction of accident from village centre

☐

Frequency casualty went to area

☐

Mine clearance in the area

☐

Did casualty attend mine awareness

☐

Mine marking in the area

☐

Type of care casualty received

☐

Time before casualty received first aid

☐

Information on total casualty numbers for a specified place or time-period

☐

Were others injured/killed

☐

Knowledge of casualty about danger in the area

☐

Please indicate desired dates for your information request. Dates can be from 1979 to the present.

FROM

Day - Month - Year

TO

Day - Month - Year

9 Specify the location (s) you are interested in

☐

All Cambodia

☐

Province

☐

District

☐

Commune

CMVIS can provide detailed village level data. Indicate if you want a detailed list of villages for the location(s) you specified above, including:


☐

Casualty address

☐

Accident location

☐

Occupation

☐

Civilian

Military

☐

Family status of casualty

☐

Type of area of accident location

☐

Were any animals injured

☐

Knowledge of casualty about danger in the area

☐

Time & place of death

☐

Did casualty attend school

☐

Visited by a community development worker

☐

Type of device (mine or UXO)

8 Please indicate the presentation format for your information*

☐

Spreadsheet

☐

Line graphs

☐

Area chart

☐

Bar graphs

☐

Pie charts

Do you want


☐

Colour

☐

Black & white

* Please note: CMVIS does not currently provide detailed presentation maps.

- 10 Give any other information about your request, such as the specific age groups you are interested in. If there is not enough room attach your comments on a separate piece of paper.

Information use

- 11 For our records, please indicate how you intend to use the information we provide

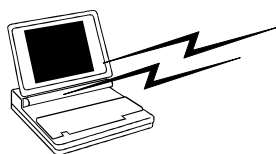
HI and the CRC maintain a privacy policy concerning requests for information which disclose the identity or address of mine and UXO casualties. HI/CRC reserve the right to withhold such information in case they are of the opinion that the information may be used for non-humanitarian purposes or otherwise misused. In accordance with this policy you are requested to complete the following testimony in order to receive information about the identity of casualties.

I undertake that I will not willfully disclose the information provided hereafter by CMVIS to any individual, agency, corporation, programme, authority or organisation, not specified in this request form and that I will use the information only for purposes outlined in question 11 of this form.

Signature

Date

SEND TO:
cmvis@bigpond.com.kh



ANNEX 3

Monthly Mine / UXO Victim Report



CAMBODIA MINE/UXO VICTIM INFORMATION SYSTEM

Month-to-Month Casualty Trend



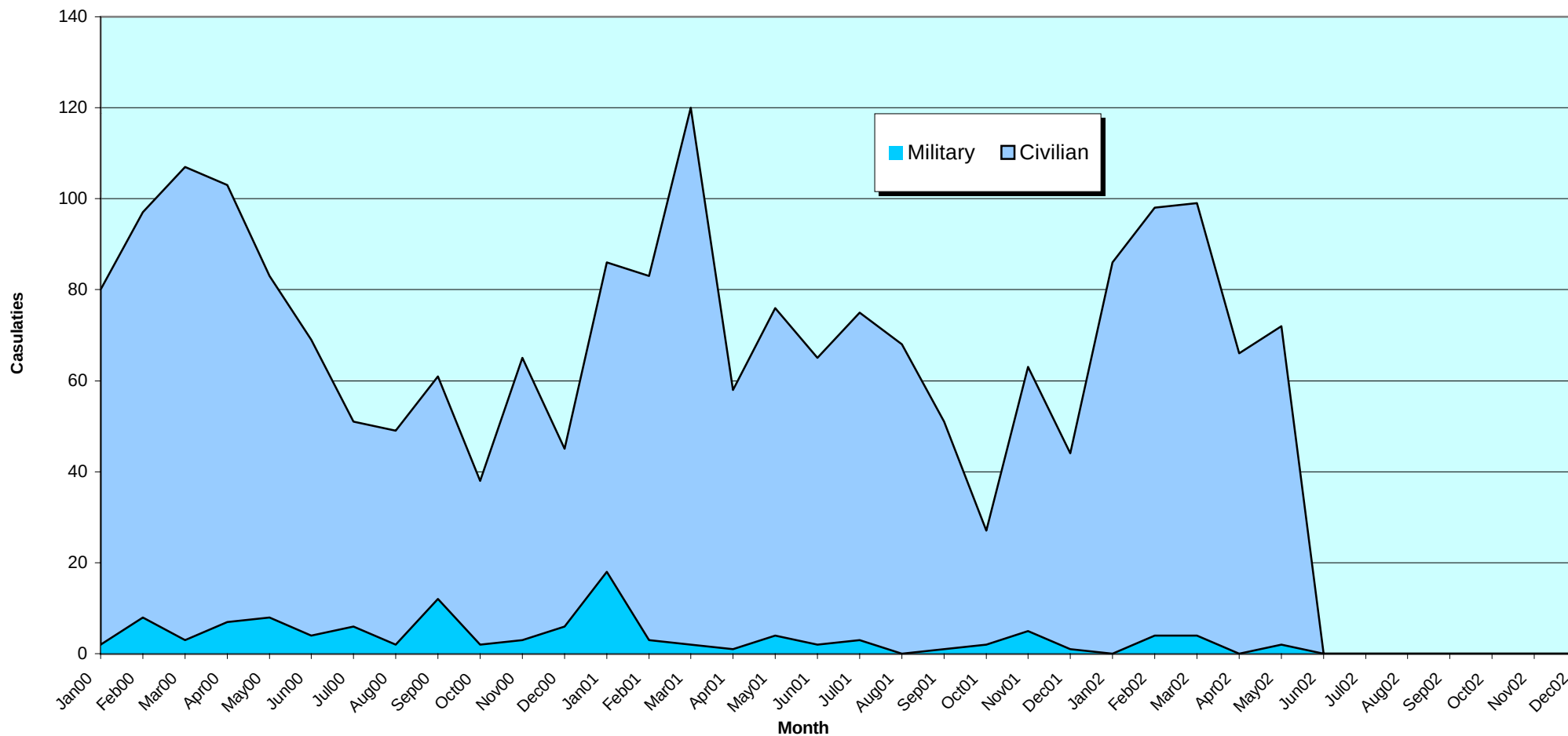
Reported Mine/UXO Casualties for the Period of: January 1999 - May 2002

	Jan	Feb	Mar	April	May	Jun	July	Aug	Sept	Oct	Nov	Dec	Total
Year	casualties	casualties	casualties	casualties	casualties	casualties	casualties	casualties	casualties	casualties	casualties	casualties	casualties
1999	124	152	177	130	122	77	77	52	60	55	55	69	1150
<i>Running Total 1999</i>	124	276	453	583	705	782	859	911	971	1026	1081	1150	
2000	80	97	107	103	83	69	51	49	61	38	65	45	848
<i>Running Total 2000</i>	80	177	284	387	470	539	590	639	700	738	803	848	
% change 1999 to 2000	-35.5	-35.9	-37.3	-33.6	-33.3	-31.1	-31.3	-29.9	-27.9	-28.1	-25.7	-26.3	
2001	86	83	120	58	76	65	75	68	51	27	63	44	816
monthly change +/- from 2000	6	-14	13	-45	-7	-4	24	19	-10	-11	-2	-1	
monthly change % from 2000	8	-14	12	-44	-8	-6	47	39	-16	-29	-3	-2	
<i>Running Total 2001</i>	86	169	289	347	423	488	563	631	682	709	772	816	
% change 2000 to 2001	7.5	-4.5	1.8	-10.3	-10.0	-9.5	-4.6	-1.3	-2.6	-3.9	-3.9	-3.8	
2002	86	98	99	66	72								421
monthly change +/- from 2001	0	15	-21	8	-4								
monthly change % from 2001	0	18	-18	14	-5								
<i>Running Total 2002</i>	86	184	283	349	421								
% change 2001 to 2002	0	8.9	-2.1	0.6	-0.5								

Note: Casualty figures for prior months are continually updated and verified as a part of the on-going data collection process.



CAMBODIA MINE/UXO VICTIM INFORMATION SYSTEM
Casualty Trend 2000 - 2002: Reported Mine/UXO Casualties by Month
Reporting Period: January 2000 - May 2002



	Jan00	Feb00	Mar00	Apr00	May00	Jun00	Jul00	Aug00	Sep00	Oct00	Nov00	Dec00	Jan01	Feb01	Mar01	Apr01	May01	Jun01	Jul01	Aug01	Sep01	Oct01	Nov01	Dec01	Jan02	Feb02	Mar02	Apr02	May02								
TOT	80	97	107	103	83	69	51	49	61	38	65	45	86	83	120	58	76	65	75	68	51	27	63	44	86	98	99	66	72								
MIL	2	8	3	7	8	4	6	2	12	2	3	6	18	3	2	1	4	2	3		1	2	5	1		4	4		2								
CIV	78	89	104	96	75	65	45	47	49	36	62	39	68	80	118	57	72	63	72	68	50	25	58	43	86	94	95	66	70								

File: M2Report

Report Date:

4-Jul-2002

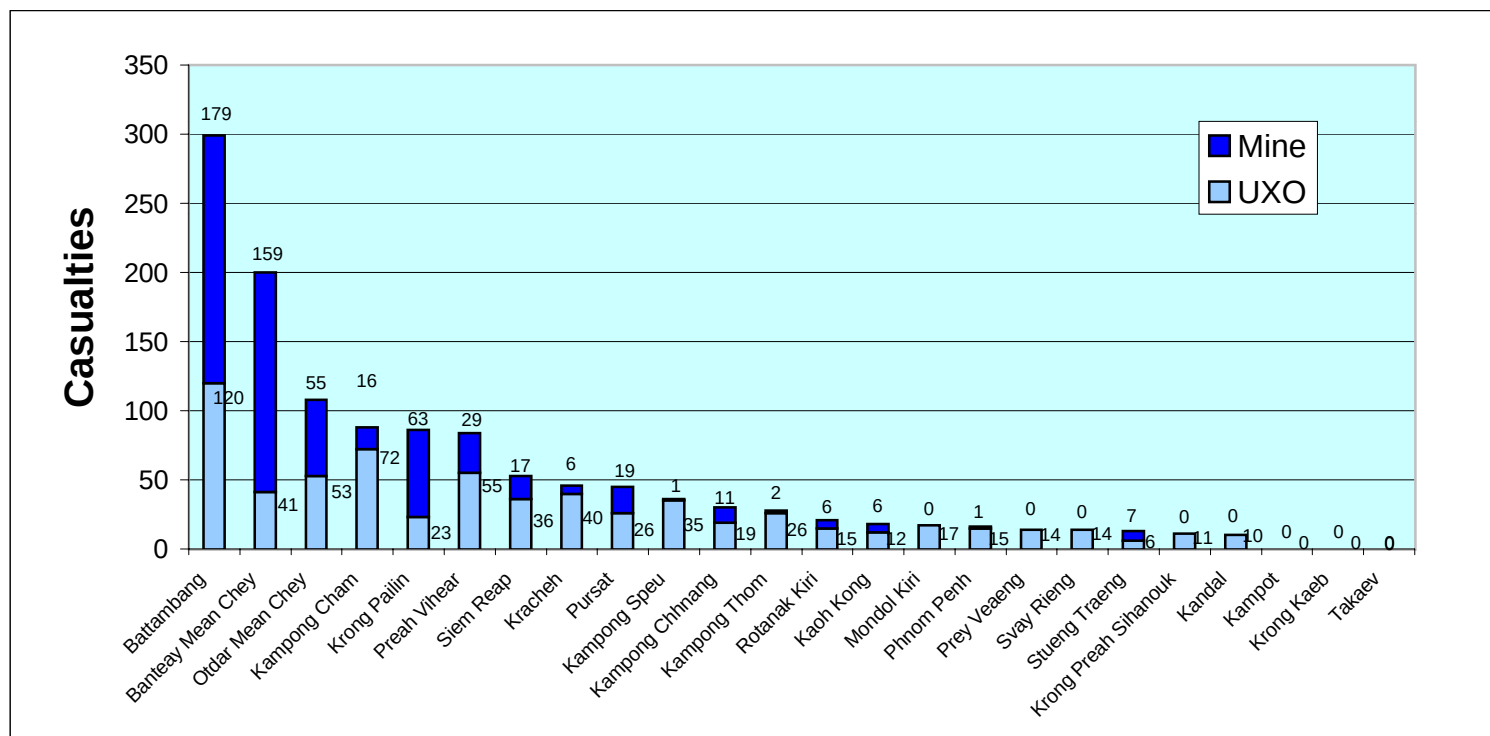




CAMBODIA MINE/UXO VICTIM INFORMATION SYSTEM

Mine / UXO Casualties by Province

Reporting Period: Jan2001 - May2002





CAMBODIA MINE / UXO VICTIM INFORMATION SYSTEM

30 Most Affected Districts for Mine / UXO Casualties ranked by Total Incident Rate

Reporting Period: Jan2001 - May2002



Rank	Province	District	Civilian Casualties	Military Casualties	Total Casualties	Cumulative Total
1	Battambang	Samlout	68	9	77	77
2	Krong Pailin	Sala Krau	67	1	68	145
3	Banteay Mean Chey	Malai	55	1	56	201
4	Banteay Mean Chey	Ou Chrov	54		54	255
5	Battambang	Rotanak Mondol	50	1	51	306
6	Preah Vihear	Choam Khsant	36	10	46	352
7	Battambang	Kamrieng	40		40	392
8	Banteay Mean Chey	Thma Puok	36	1	37	429
9	Banteay Mean Chey	Svay Chek	31	1	32	461
10	Otdar Mean Chey	Chong Kal	29		29	490
11	Otdar Mean Chey	Samraong	27		27	517
12	Battambang	Moung Ruessei	26		26	543
13	Battambang	Sampov Lun	25	1	26	569
14	Battambang	Bavel	25		25	594
15	Otdar Mean Chey	Anlong Veang	22	3	25	619
16	Kracheh	Snuol	24		24	643
17	Battambang	Koas Krala	19	1	20	663
18	Pursat	Veal Veang	18	2	20	683
19	Otdar Mean Chey	Banteay Ampil	19		19	702
20	Kampong Cham	Memot	18		18	720
21	Kampong Chhnang	Kampong Tralach	18		18	738
22	Kampong Speu	Chbar Mon	18		18	756
23	Krong Pailin	Pailin	16	2	18	774
24	Battambang	Phnum Proek	16		16	790
25	Pursat	Phnum Kravanh	15		15	805
26	Siem Reap	Srei Snam	14		14	819
27	Kampong Cham	Stueng Trang	13		13	832
28	Kampong Cham	Ponhea Kraek	12		12	844
29	Kampong Cham	Tboung Khmum	11		11	855
30	Kampong Speu	Samraong Tong	11		11	866



CAMBODIA MINE / UXO VICTIM INFORMATION SYSTEM

30 Most Affected Communes for Mine / UXO Incidents ranked by Total Incident Rate

Reporting Period: Jan2001 - May2002



Rank	Province	District	Commune	Civilian Casualties	Military Casualties	Total Casualties	Cum. Total
1	Krong Pailin	Sala Krau	Stueng Kach	44	1	45	45
2	Banteay Mean Chey	Svay Chek	Svay Chek	28	1	29	74
3	Otdar Mean Chey	Samraong	Kriel	26		26	100
4	Banteay Mean Chey	Ou Chrov	Paoy Paet	25		25	125
5	Banteay Mean Chey	Thma Puok	Kouk Romiet	22	1	23	148
6	Banteay Mean Chey	Malai	Boeng Beng	21		21	169
7	Battambang	Rotanak Mondol	Traeng	20		20	189
8	Battambang	Bavel	Kdol Ta Haen	19		19	208
9	Battambang	Rotanak Mondol	Sdau	18	1	19	227
10	Battambang	Samlout	Sung	14	3	17	244
11	Banteay Mean Chey	Malai	Tuol Pongro	16		16	260
12	Battambang	Samlout	Mean Cheay	15		15	275
13	Krong Pailin	Sala Krau	Sala Krau	15		15	290
14	Kracheh	Snuol	Srae Char	15		15	305
15	Otdar Mean Chey	Chong Kal	Chong Kal	14		14	319
16	Battambang	Samlout	Samrel	14		14	333
17	Kampong Chhnang	Kampong Tralach	Longveaek	14		14	347
18	Banteay Mean Chey	Thma Puok	Banteay Chhmar	13		13	360
19	Preah Vihear	Choam Khsant	Kantuot	10	2	12	372
20	Krong Pailin	Pailin	Ba Yakha	10	2	12	384
21	Battambang	Samlout	Ta Taok	8	4	12	396
22	Kampong Cham	Stueng Trang	Ou Mlu	11		11	407
23	Kampong Speu	Chbar Mon	Roka Thum	11		11	418
24	Pursat	Veal Veaeng	Thma Da	9	2	11	429
25	Preah Vihear	Choam Khsant	Choam Ksant	4	7	11	440
26	Banteay Mean Chey	Ou Chrov	Ou Bei Choan	11		11	451
27	Preah Vihear	Choam Khsant	Tuek Kraham	10	1	11	462
28	Kaoh Kong	Mondol Seima	Bak Khlang	5	5	10	472
29	Banteay Mean Chey	Malai	Ou Sampor	10		10	482
30	Pursat	Phnum Kravanh	Samraong	10		10	492



CAMBODIA MINE/UXO VICTIM INFORMATION SYSTEM

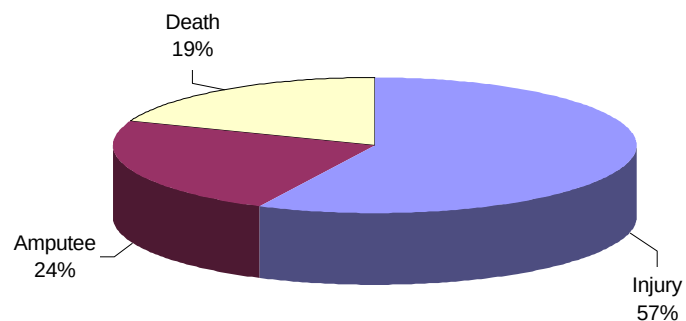
OVERVIEW OF MINE/UXO INCIDENTS

Reporting Period: Jun2001 - May2002 (12 Months)

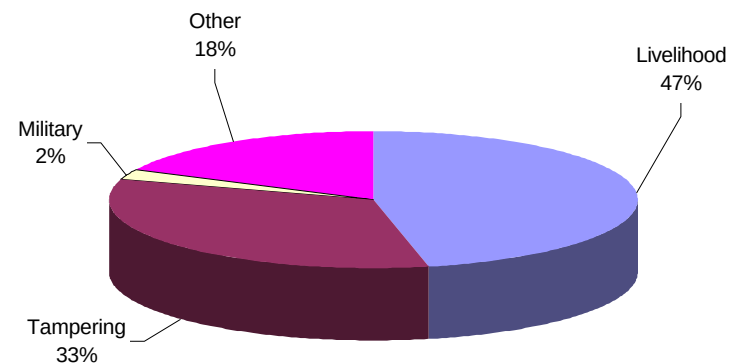
Total Number of Casualties during Reporting Period: 814



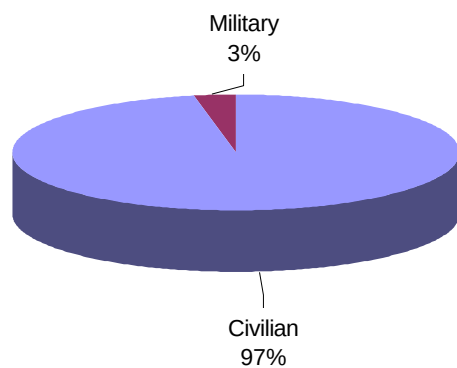
Casualty Types



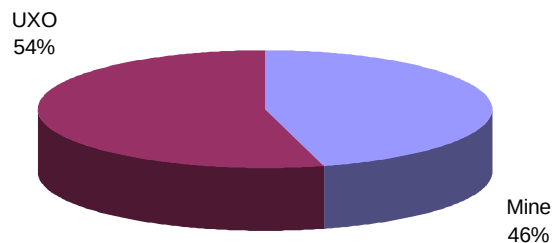
Cause of Casualty



Military vs. Civilian

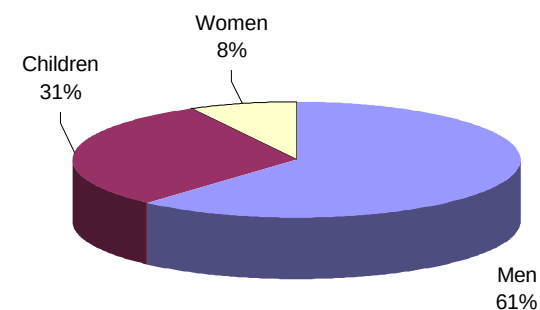


Mine/UXO Distribution



Population Groups

Children= Age less than 18



Note: Data may be incomplete/unavailable for some categories



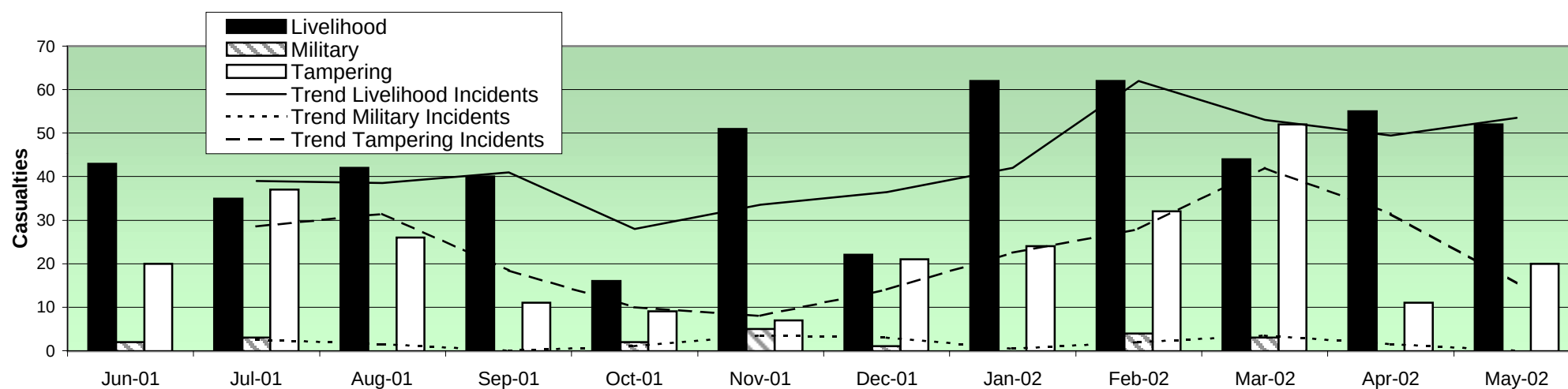
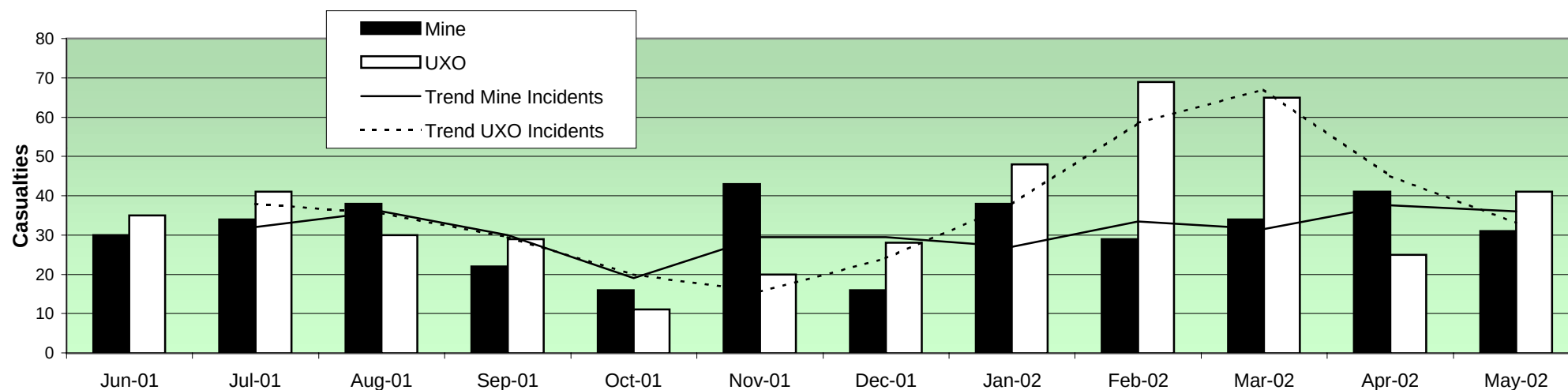
CAMBODIA MINE/UXO VICTIM INFORMATION SYSTEM

Casualty Trends: Mine/UXO and Cause of Mine/UXO Incidents

Reporting Period: Jun2001 - May2002



Total Number of Casualties during Reporting Period: 814





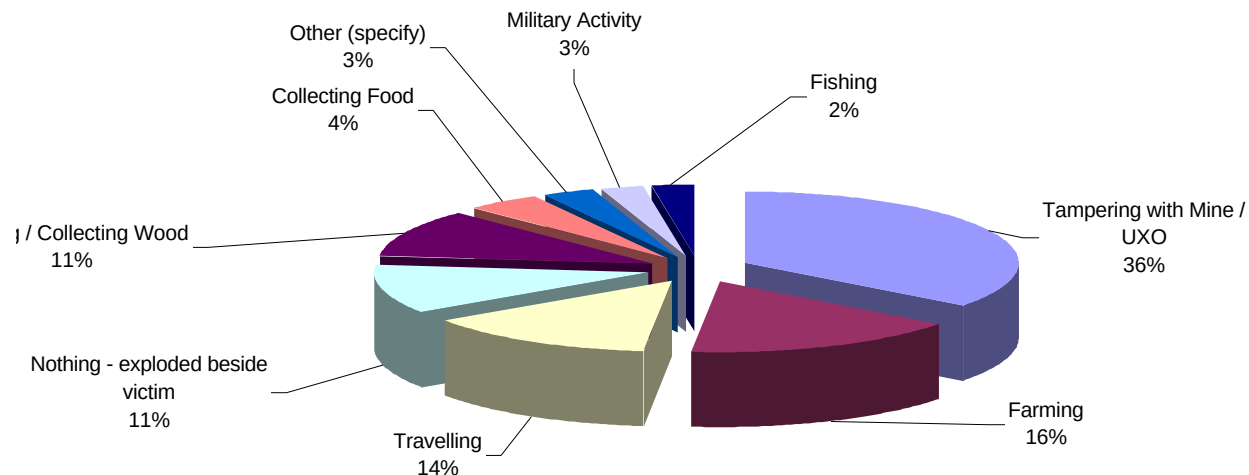
CAMBODIA MINE/UXO VICTIM INFORMATION SYSTEM

Cause of Incident by Population Group

Reporting Period: Jun2001 - May2002 (12 Months)



Cause of Casualty in Total Population



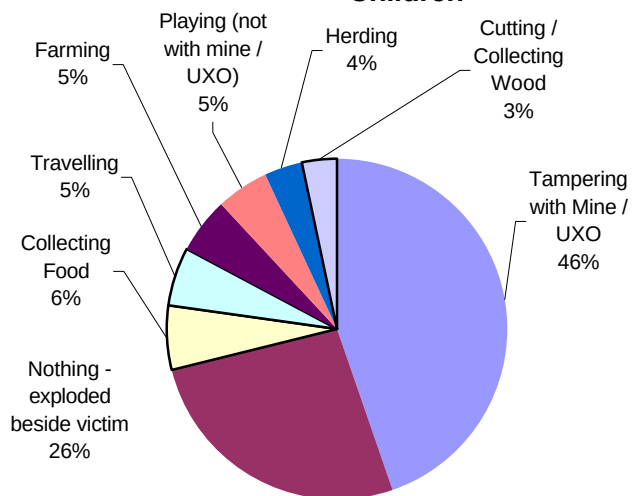
No. Incidents during Reporting Period:

Total:	814
Children:(<18yrs)	249
Men:	502
Women:	63

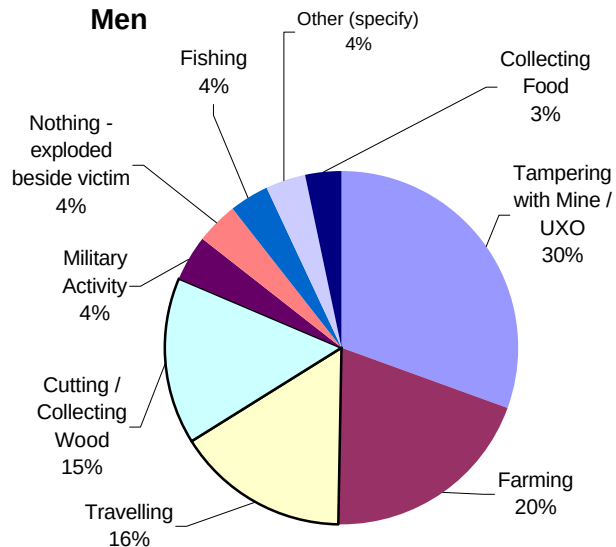
Note:

Data may be incomplete or unavailable for some categories

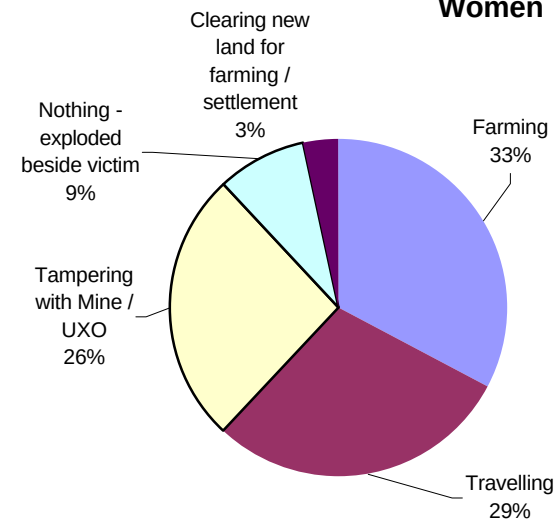
Children



Men



Women





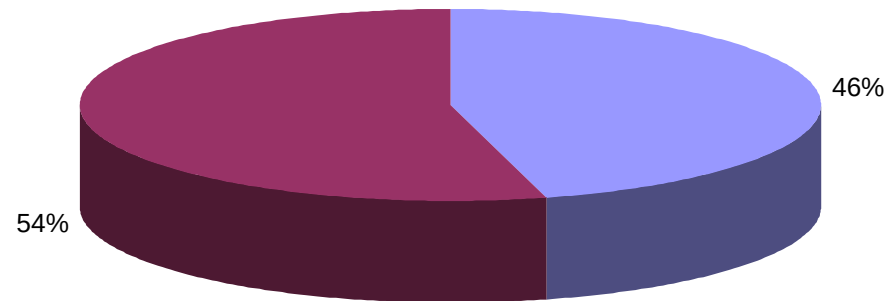
CAMBODIA MINE/UXO VICTIM INFORMATION SYSTEM

Casualty causing Explosive by Population Group

Reporting Period: Jun2001 - May2002 (12 Months)



Cause of Casualty in Total Population

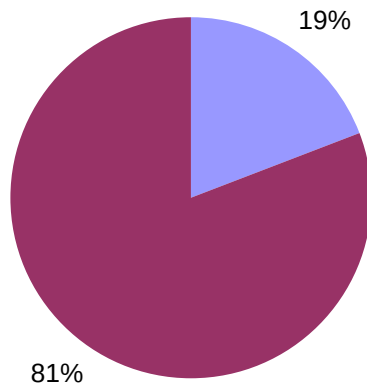


No. Incidents during Reporting Period:

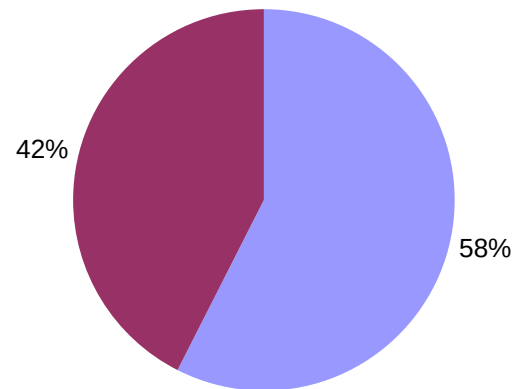
Total:	814
Children:(<18yrs)	249
Men:	502
Women:	63

Note:
Data may be incomplete or unavailable for some categories

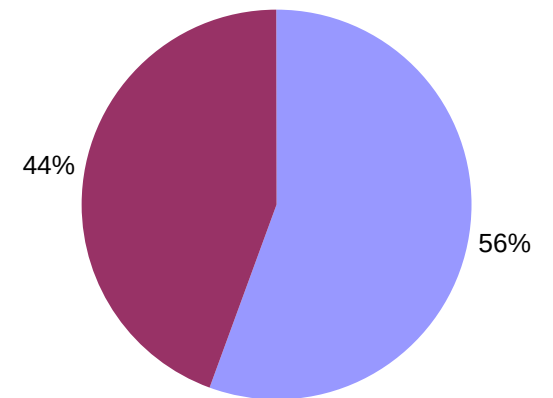
Children



Men



Women





CAMBODIA MINE/UXO VICTIM INFORMATION SYSTEM

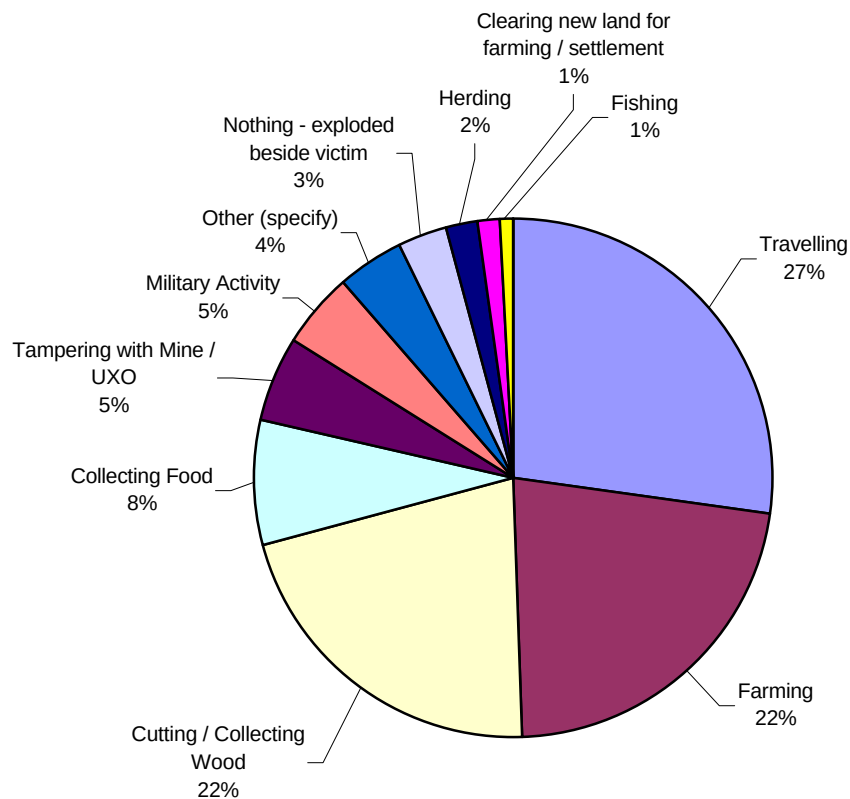
ACTIVITIES BY TYPE OF EXPLOSIVE

Reporting Period: Jun2001 - May2002 (12 Months)

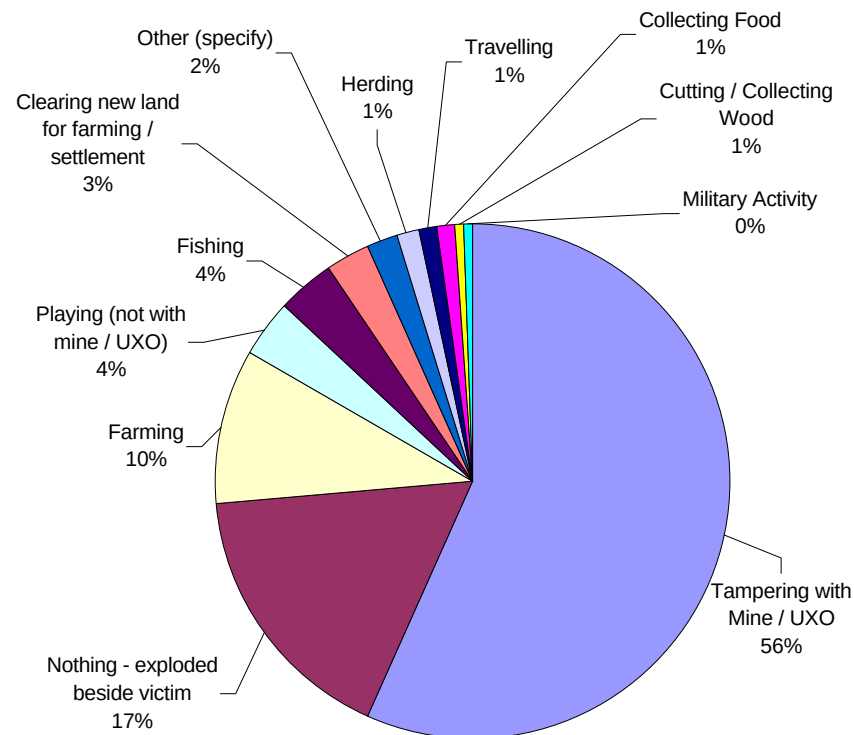


Number of Incidents during Reporting Period:		
Total:	814	Mines: 372 UXO: 442

Mine



UXO





CAMBODIA MINE/UXO VICTIM INFORMATION SYSTEM

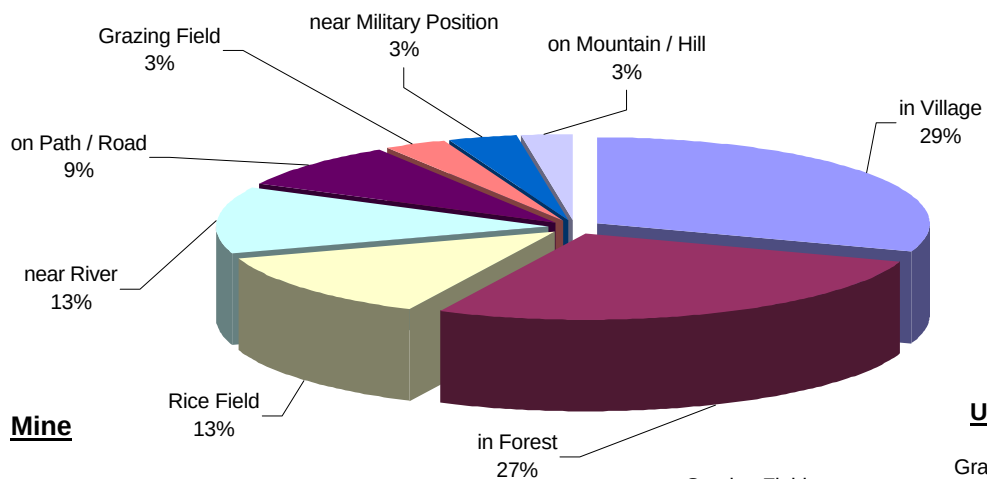
Mine/UXO Incidents by Terrain Type

Reporting Period: Jun2001 - May2002 (12 Months)

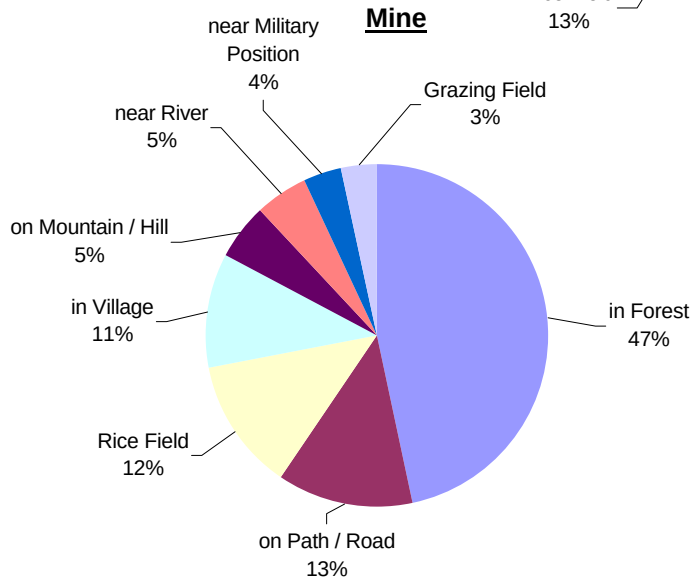
Number of Incidents during Reporting Period:			
Total:	814	Mines:	372
		UXO:	442



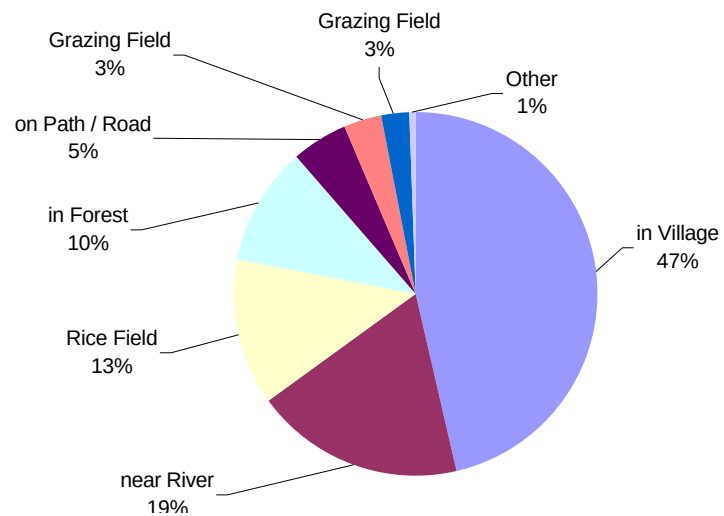
All Explosives



Mine



UXO



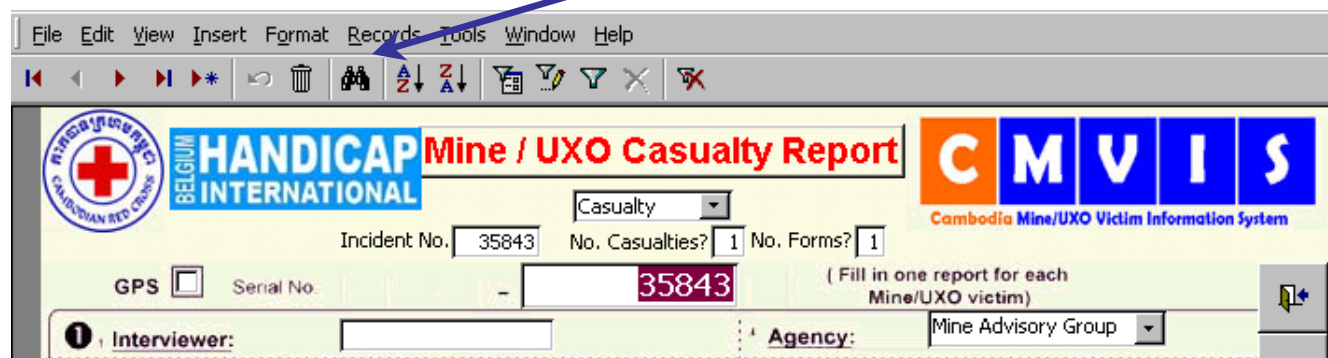
ANNEX 4

Description of CMVIS Search Module

Searching for Victims in Cambodia Mine/UXO Victim Information System (CMVIS)

It is important to be able to find a particular victim, or groups of victims in the database quickly and easily. This can be done by using a specially designed search screen.

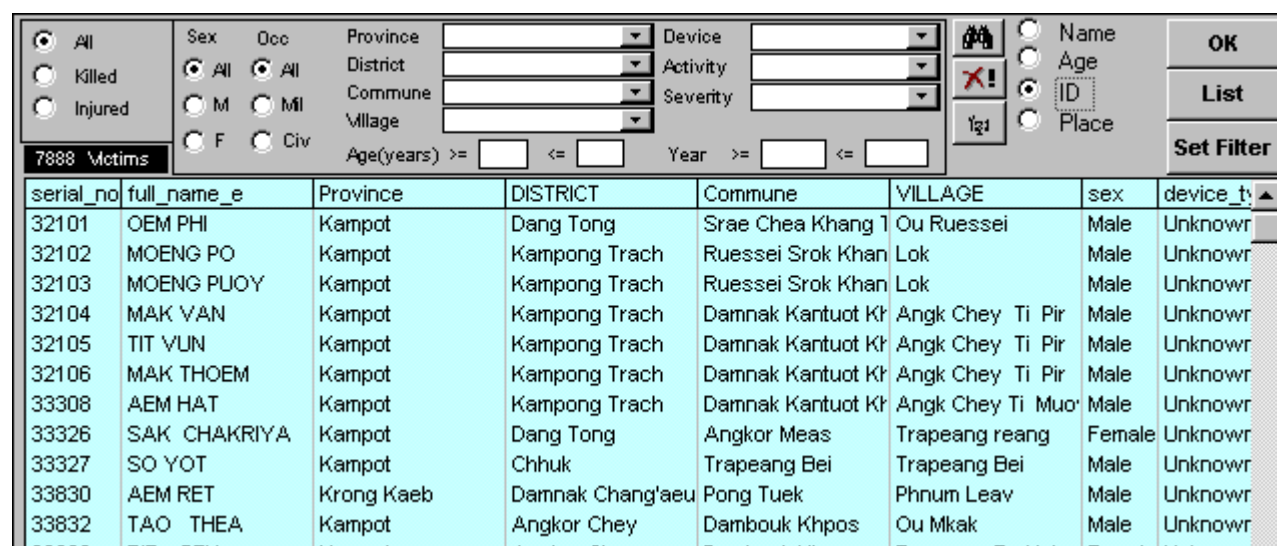
To find a victim, or group of victims, click the search button  on the toolbar to open the search screen



The screenshot shows the main interface of the Cambodia Mine/UXO Victim Information System (CMVIS). At the top, there is a menu bar with options: File, Edit, View, Insert, Format, Records, Tools, Window, and Help. Below the menu is a toolbar with various icons, including a search button (represented by a magnifying glass over a person icon) which is highlighted by a blue arrow. The main area contains the following fields and controls:

- Logos:** Belgian International (with a red cross logo) and CMVIS (Cambodia Mine/UXO Victim Information System).
- Form Fields:**
 - Casualty:** A dropdown menu.
 - Incident No.:** A text box containing "35843".
 - No. Casualties?:** A text box containing "1".
 - No. Forms?:** A text box containing "1".
 - GPS:** A checkbox.
 - Serial No.:** A text box containing "35843".
 - Interviewer:** A text box.
 - Agency:** A dropdown menu with "Mine Advisory Group" selected.
- Instructions:** "(Fill in one report for each Mine/UXO victim)".

The search screen will then open



The screenshot shows the search screen of the CMVIS. It features a complex set of filters and a results table.

Filters:

- Search Type:** Radio buttons for "All", "Killed", and "Injured".
- Sex:** Radio buttons for "All", "M", and "F".
- Occ:** Radio buttons for "All", "Mil", and "Civ".
- Province:** A dropdown menu.
- District:** A dropdown menu.
- Commune:** A dropdown menu.
- Village:** A dropdown menu.
- Age(years):** Two text boxes for ">=" and "<=".
- Year:** Two text boxes for ">=" and "<=".
- Device:** A dropdown menu.
- Activity:** A dropdown menu.
- Severity:** A dropdown menu.
- Name:** A radio button.
- Age:** A radio button.
- ID:** A radio button.
- Place:** A radio button.
- Buttons:** "OK", "List", and "Set Filter".

Results Table:

serial_no	full_name_e	Province	DISTRICT	Commune	VILLAGE	sex	device_ty
32101	OEM PHI	Kampot	Dang Tong	Srae Chea Khang 1	Ou Ruessei	Male	Unknowr
32102	MOENG PO	Kampot	Kampong Trach	Ruessei Srok Khan	Lok	Male	Unknowr
32103	MOENG PUOY	Kampot	Kampong Trach	Ruessei Srok Khan	Lok	Male	Unknowr
32104	MAK VAN	Kampot	Kampong Trach	Damnak Kantuot Kf	Angk Chey Ti Pir	Male	Unknowr
32105	TIT VUN	Kampot	Kampong Trach	Damnak Kantuot Kf	Angk Chey Ti Pir	Male	Unknowr
32106	MAK THOEM	Kampot	Kampong Trach	Damnak Kantuot Kf	Angk Chey Ti Pir	Male	Unknowr
33308	AEM HAT	Kampot	Kampong Trach	Damnak Kantuot Kf	Angk Chey Ti Muo	Male	Unknowr
33326	SAK CHAKRIYA	Kampot	Dang Tong	Angkor Meas	Trapeang reang	Female	Unknowr
33327	SO YOT	Kampot	Chhuk	Trapeang Bei	Trapeang Bei	Male	Unknowr
33830	AEM RET	Krong Kaeb	Damnak Chang'aeu	Pong Tuek	Phnum Leav	Male	Unknowr
33832	TAO THEA	Kampot	Angkor Chey	Dambouk Khpos	Ou Mkak	Male	Unknowr

There are a number of options available to optimise the search. The search can be narrowed to look for victims from a particular place, age group, gender etc or even with a name containing certain letters. After finding a person or group of people it is possible to print a list, view a group of victims or go to a particular record by pressing OK (or double clicking the name of the person).

To find a group of staff using the search screen:

Use the picklists to narrow the search



The screenshot shows a search interface with the following elements:

- Left Panel:** Radio buttons for 'All', 'Killed', and 'Injured'. Below them, a box displays '7888 Victims'.
- Sex Section:** Radio buttons for 'All', 'M', and 'F'.
- Occ Section:** Radio buttons for 'All', 'Mil', and 'Civ'.
- Location Picklists:** Dropdown menus for 'Province', 'District', 'Commune', and 'Village'.
- Age/Year Range:** Fields for 'Age(years)' and 'Year' with '>=' and '<=' operators.
- Device/Activity/Severity:** Dropdown menus for 'Device', 'Activity', and 'Severity'.
- Sorting/Display Options:** Radio buttons for 'Name', 'Age', 'ID', and 'Place'. There is also a button with a red 'X' and an exclamation mark.
- Buttons:** 'OK', 'List', and 'Set Filter' on the right side.

Blue arrows point from the text 'Use the picklists to narrow the search' to the 'Province', 'District', 'Commune', and 'Village' dropdown menus. Other blue arrows point from the text instructions below to the 'OK', 'List', 'Set Filter', and sorting options.

After choosing the search criteria click here to find victims

Click here to clear the search criteria before a new search

Click here to display the search results in Khmer

Display the results in different order by clicking these options

Use these buttons to process the search results as follows:

- OK to go to the highlighted record
- List to print a listing of the search results
- Set Filter to go ALL of the victim records found by the search

ANNEX 5

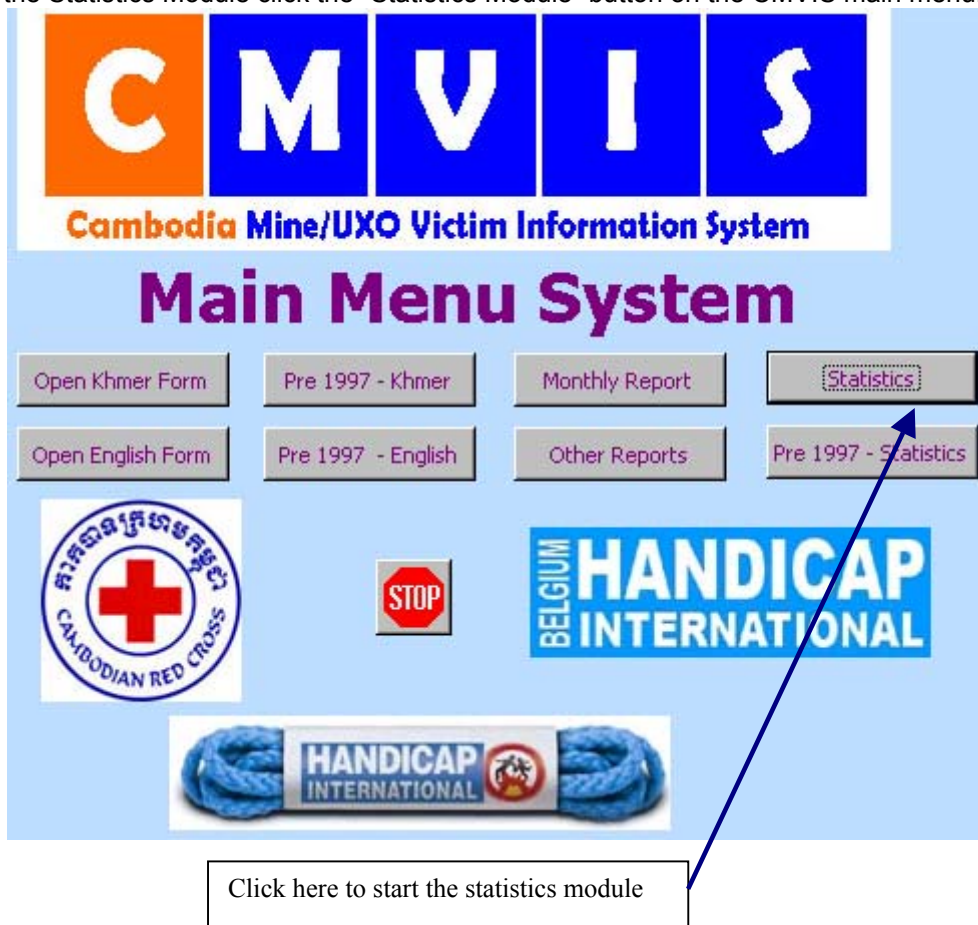
Description of CMVIS Statistics Module

Cambodia Mine/UXO Victim Information System – Statistics Module

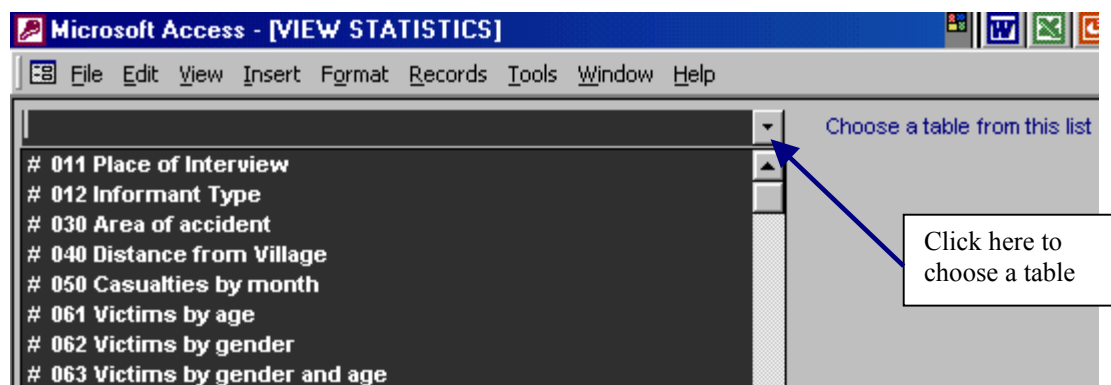
The CMVIS Statistics Module allows the user to generate a wide range of statistics based on information collected through the Mine/UXO casualty form. Data can be viewed in text and graphical formats and output in a variety of styles (WORD EXCEL etc) for further manipulation. The Statistics Module requires no prior knowledge of ACCESS for general use but for users with basic ACCESS skills (in particular Query generation) it can be customized to enable the user to add their own queries to the module.

1. Starting the Statistics Module

1.1 To start the Statistics Module click the “Statistics Module” button on the CMVIS main menu.



1.2 You will then be presented with the View Statistics screen from which you can choose from a list of tables.



1.3. After choosing a table you will be presented with the main screen showing the chosen statistical table which can be printed, export in various formats or viewed as a graph.

Click here for
data from a
single province

Click here for
new
tables

Click here for
data from a
single district

Click here for
data from a
single commune

Output options
(see next section)

Clear province,
district and
commune lists

030 Area of accident

Choose Province

Choose District

Choose Commune

Area of accident	Total	1997	1998	1999	2000	2001	2002
Grazing Field	151	29	18	5	42	19	38
In Forest	2733	885	910	298	245	207	188
In Village	1463	97	340	324	250	284	168
Near Military Position	311	92	78	50	44	27	20
Near River	575	120	146	111	58	73	67
On Mountain / Hill	257	39	104	40	34	24	16
On Path / Road	731	182	282	96	65	64	42
Other (specify)	107	74	7	3	4	10	9
Rice Field	1062	314	212	225	119	117	75

This table summarises the reponses to the question "Where did the accident take place?" asked in section 3 of the casualty form

Description of the
data in the table

The tables are generated by set of queries that summarise the data collected on the Mine / UXO casualty report. The Statistics Module lets the user query this data for the whole country, or by a single province or district. The module also lets the user print the table directly or output the data to other applications for additional formatting (see the next section for instructions on printing and outputting the data).

2. Printing and exporting statistics

All statistical tables produce by the Statistics Module can be:

- Printed
- Exported to WORD as a rich text file
- Exported to EXCEL
- Exported to an ACCESS table
- Viewed as a graph (graphs can also be cut and pasted into any compatible software such as WORD or EXCEL)

2.1 Printing a table

To print the table, click on this button



The report will then be previewed on the screen as shown. The report can then be printed or exported to word.

Click here to print

Click here to export to WORD

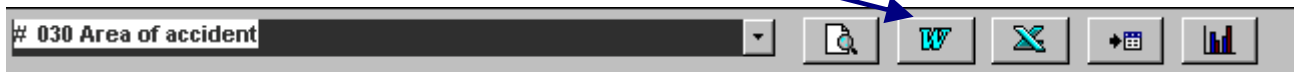
A screenshot of a software interface showing a report preview. The toolbar at the top includes icons for print, word, excel, and other functions. A blue arrow points from the text "Click here to print" to the print icon. Another blue arrow points from the text "Click here to export to WORD" to the Word document icon. The main area displays a table titled "# 030 Area of accident - Battambang province" with columns for "Area of accident", "1997", "1998", and "1999". The table lists various accident locations and their counts for the years 1997, 1998, and 1999. Below the table, there is a note: "This table summarises the responses to the question 'Where did the accident take place?' asked i".

Area of accident	1997	1998	1999
Grazing Field	3	0	0
In Forest	253	219	85
In Village	14	130	90
Near Military Position	17	16	10
Near River	21	41	14
On Mountain / Hill	16	26	19
On Path / Road	24	95	40
Other (specify)	28	4	2
RiceField	47	45	69
Total:	423	576	329

This table summarises the responses to the question "Where did the accident take place?" asked i

2.2 Export to word

To export the table to WORD click on this button



The WORD document will open automatically and be saved in the same directory as the CMVIS database with the name of the table (in this case "# 030 Area of Accident – all provinces.rtf")

2.3 Export to EXCEL

To export the table to EXCEL click on this button



The EXCEL document will open automatically and be saved in the same directory as the CMVIS database with the name of the table (in this case "# 030 Area of Accident – all provinces.xls")

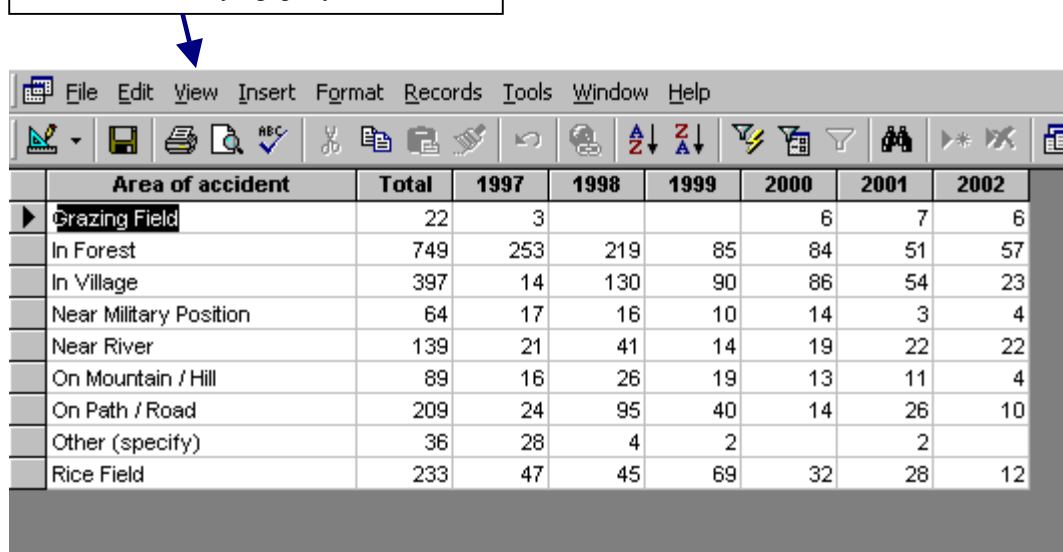
2.4 Export to an ACCESS table

To export the table to an ACCESS table click on this button



This table can be manipulated in the same way as any other ACCESS table (cut and pasted, sorted etc) and also for users who are familiar with ACCESS queries the underlying query can also be **safely** changed and saved to produce new queries.

To edit the underlying query click here



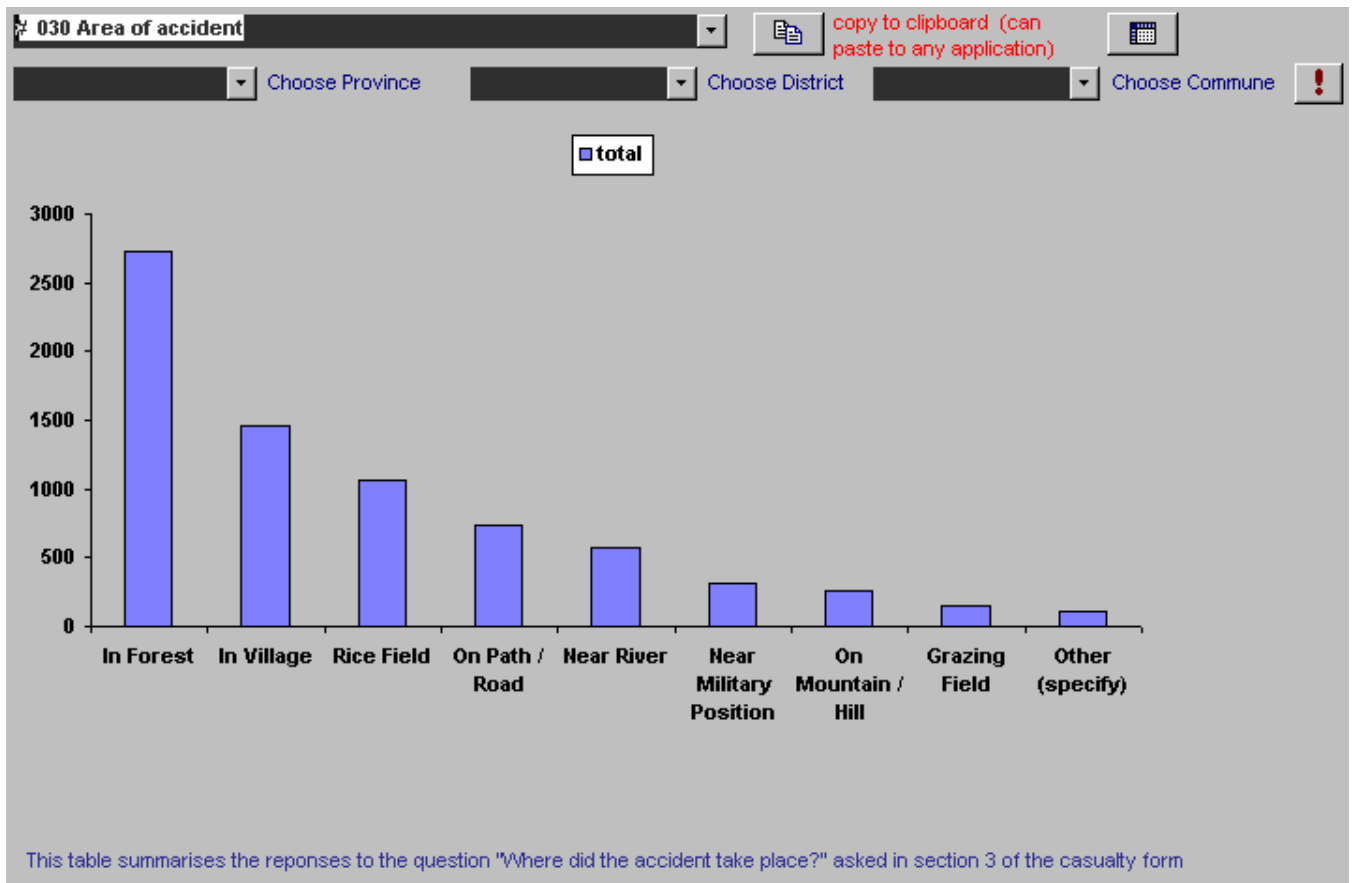
	Area of accident	Total	1997	1998	1999	2000	2001	2002
►	Grazing Field	22	3			6	7	6
	In Forest	749	253	219	85	84	51	57
	In Village	397	14	130	90	86	54	23
	Near Military Position	64	17	16	10	14	3	4
	Near River	139	21	41	14	19	22	22
	On Mountain / Hill	89	16	26	19	13	11	4
	On Path / Road	209	24	95	40	14	26	10
	Other (specify)	36	28	4	2		2	
	Rice Field	233	47	45	69	32	28	12

2.5 To view the data as a graph

To view the table as a graph click on this button



The graph will the be displayed as shown



Note: Some of the graphs, especially those with a lot of columns, may be not be formatted well. In these cases use the "cut and paste" facility to copy the graph to EXCEL or WORD where it can be manually formatted.

3. Statistics Module - Technical notes

These notes are meant for any future developers working on the CMVIS database.

3.1 Structure of the Statistics Module

The statistics Modules consists of the following database objects of which all are required for the module to work:

Tables

- Br_stat_list – contains the list of queries that generate the statistics

Forms

- stat_view – is the only form in the Statistics Module and is the only user interface

Reports

- Stat_rep5 – Report used to output tables with 5 columns or less
- Stat_rep10 – Report used to output tables with 10 columns or less
- Stat_rep15 – Report used to output tables with 15 columns or less
- Stat_rep20 – Report used to output tables with 20 columns or less

Modules

- Code for Stats_module – Contains a number of VB procedures needed by the Statistics Module

3.2 How to add a query to the Statistics Module

The database objects described above form the basic structure of the Statistics Module but in order to generate and display statistics queries must be created and listed the table Br_stat_list. The procedure for generating statistics using the Statistics Module is:

3.2.1 Create a query

Create a query that displays whatever data you require using the standard query designer in ACCESS. Generally the queries should display 2 or more columns of which only the first (or in some cases the first two) will be descriptive with the rest being numeric values as shown below. Finally save the query.

S7_mineType : Crosstab Query			
	Year	Anti-personnel	Anti-tank
	1997	257	13
	1998	156	1
	1999	57	1
	2000	55	6
	2001	208	116
▶	2002	208	59

3.2.2 Add new query to the Statistics Module

To make the new query available to the Statistics Module it needs to be added to the Br_stat_list table. The Br_stat_list table contains 5 fields as shown

Br_stat_list : Table			
	Field Name	Data Type	Description
	Br stats	Text	Description of statistics produced by query
	Query	Text	Name of the query that produces the statistics
	Report	Text	Name of report to produce used to display results (default is blank) - optional
	graph query	Text	Name of query used to display graph (default is blank) - optional
	Notes	Memo	Description of statistics for the user - optional

Only fields are mandatory

- *Br_stats* which contains a short description of the statistics and is displayed in the main combo box on the stat_view form
- *Query* which contains the name of the query

The other fields are optional

- *Report* contains the name of a report used to output the results of the query. The default for this is blank. In default mode (ie blank) the Statistics Module itself decides which of the standard reports is used to display the results of the query depending upon the number of columns produced by the query. This field can be used to override the default by adding the name of a customized output report to be used.
- *graph query* is used to generate the query displayed in the graphing screen. The default for this field is blank. In default mode the Statistics Module displays the results of the main query (contained in the field *Query*). This field can be used to override the default and display a customized graph.
- *Notes* is used for a long description of the statics produced by the query for the benefit of the user and it appears on the main user interface (*stat_view*) and on all the standard output reports. This field is optional but it is strongly recommended to add a description for each query.

Examples of records in Br_stat_list is shown below

	Br stats	Query	Report	graph query	Notes
# 011	Place of Interview	S1_IntPlace		select place, total from S1_IntPlace order by total desc	This table summarises the reponses
# 012	Informant Type	S1_Informant		select [informant type], total from S1_Informant order by	This table summarises the reponses
# 030	Area of accident	s3_area		select [area of accident], total from S3_area order by to	This table summarises the reponses
# 040	Distance from Village	S4_distance		select [distance from village], total from S4_distance orc	This table summarises the reponses
# 050	Casualties by month	S5_Casuatiesf			This table summarises the reponses
# 061	Victims by age	s6_Age		select year, adult, child from s6_Age	This table shows the number of victir
# 062	Victims by gender	s6_gender			This table shows the number of victir
# 063	Victims by gender and	s6_genderAge			This table shows the number of victir
# 064	Victims by age and de	S6_deviceTyp			This table shows the number of victir
# 066	Occupation	S6_Occupation			This table shows the number of victir
# 067	Family Status	S6_familyStatu			This table shows the number of victir